

FIG. 1

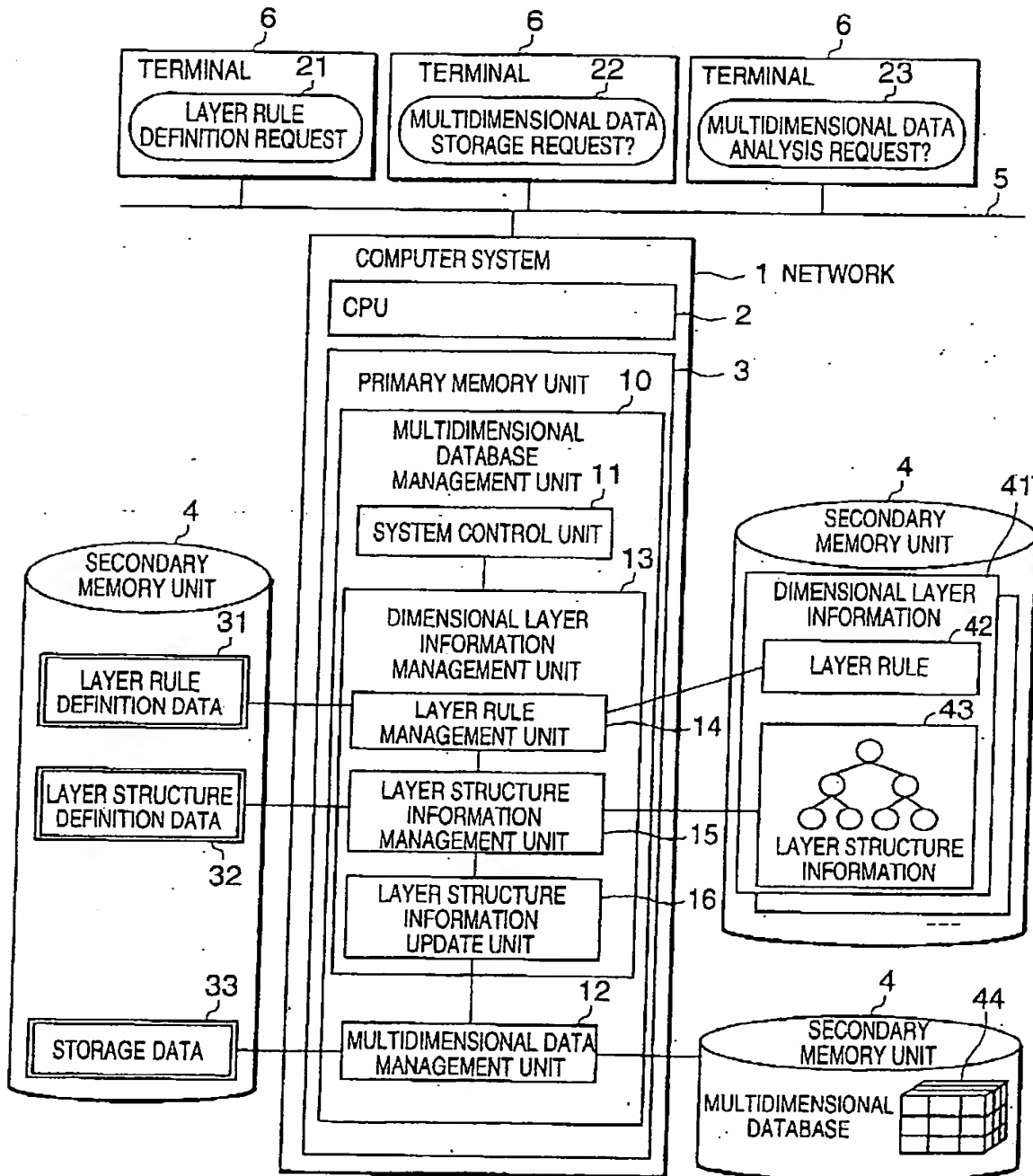


FIG. 1

10015429 16245001

FIG.2

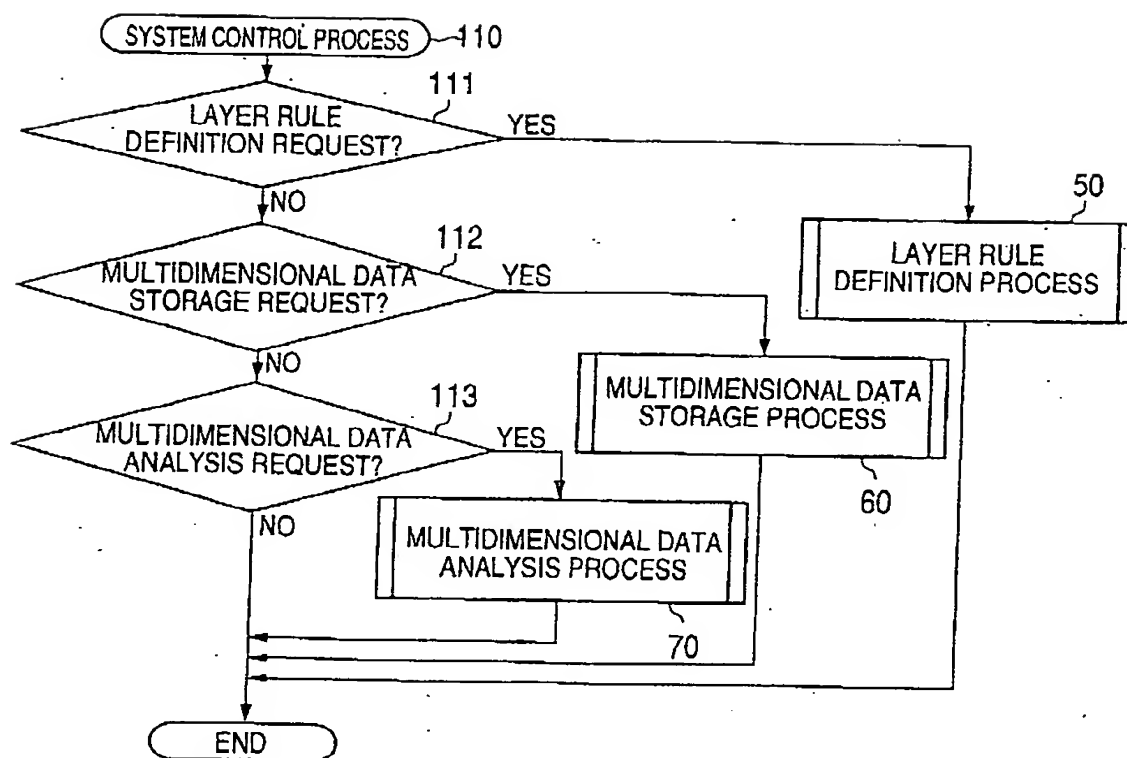


FIG.3

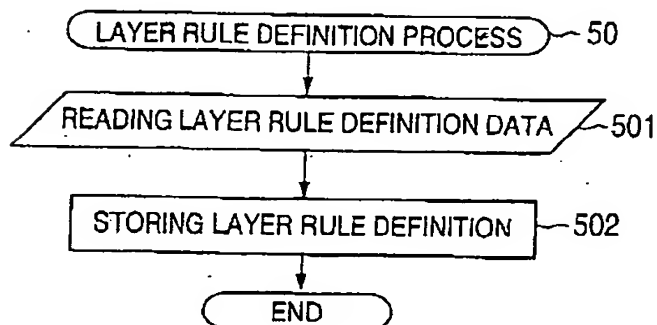


FIG.4

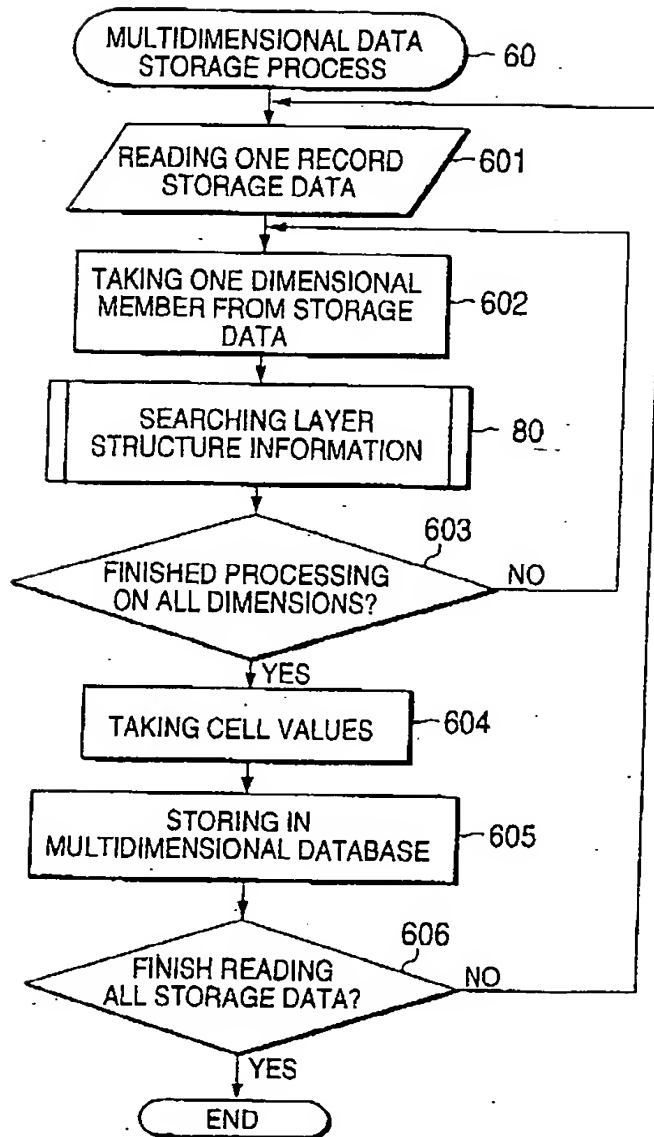


FIG.5

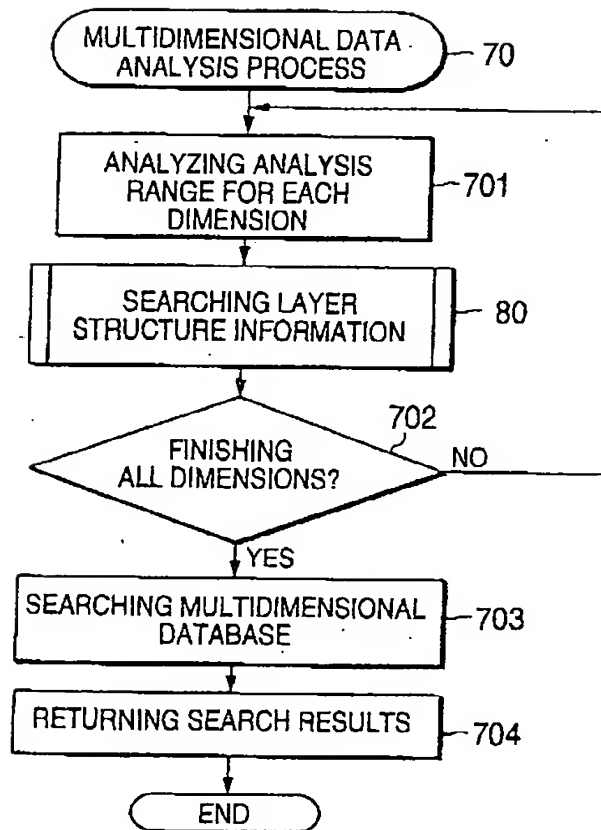


FIG.6

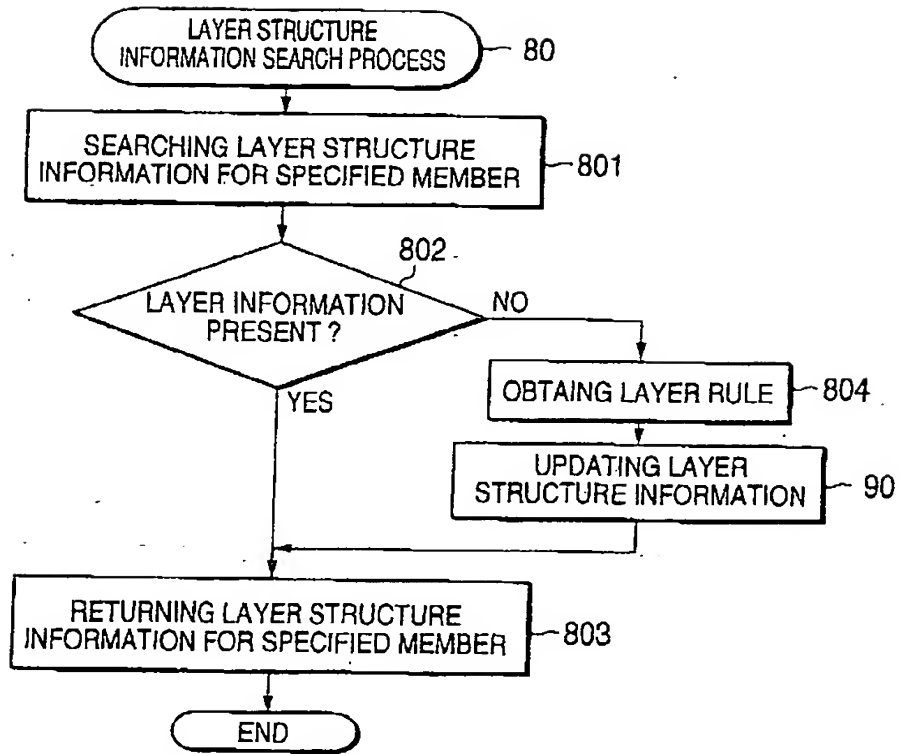


FIG.7

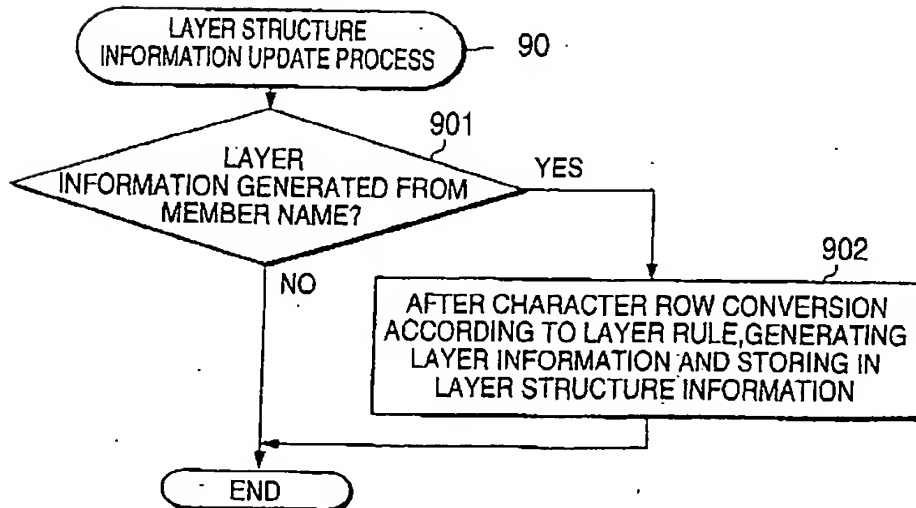


FIG.8

TIME DIMENSIONAL LAYER RULE DEFINITION DATA

3110

#LAYER RULE :

#AFTER CHARACTER ROW CONVERSION ON MEMBER, OBTAINING LAYER INFORMATION

FROM MEMBER NAME

LEVEL10= \$ MEMBER NAME

LEVEL11={

S/¥(.... ¥)0[123]/¥1Q1/

S/¥(.... ¥)0[456]/¥1Q2/

S/¥(.... ¥)0[789]/¥1Q3/

S/¥(.... ¥)1[012]/¥1Q4/

}

LEVEL12={

S/¥(.... ¥)..../¥1/

}

FIG.9

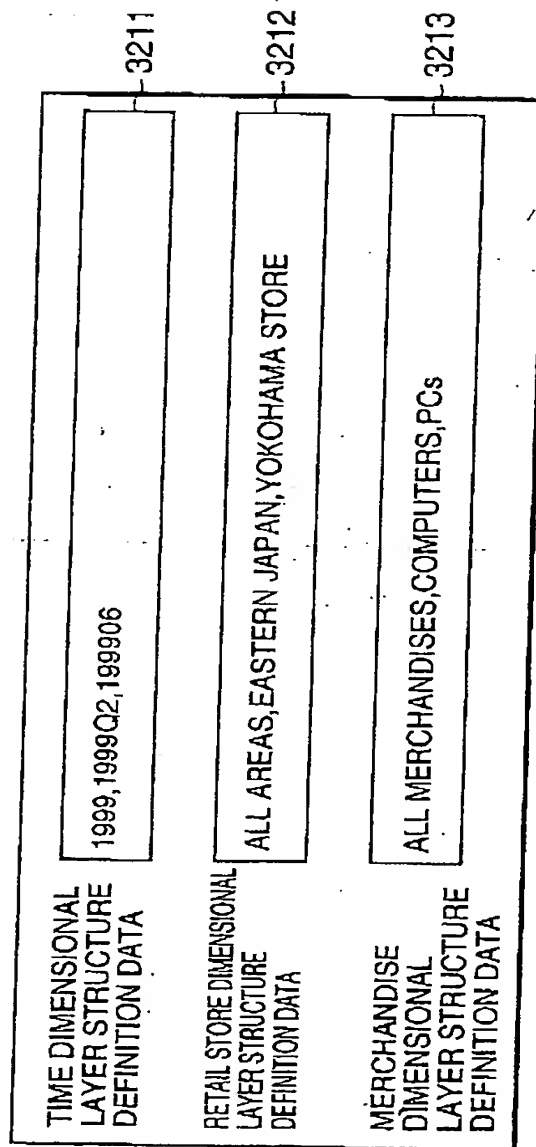
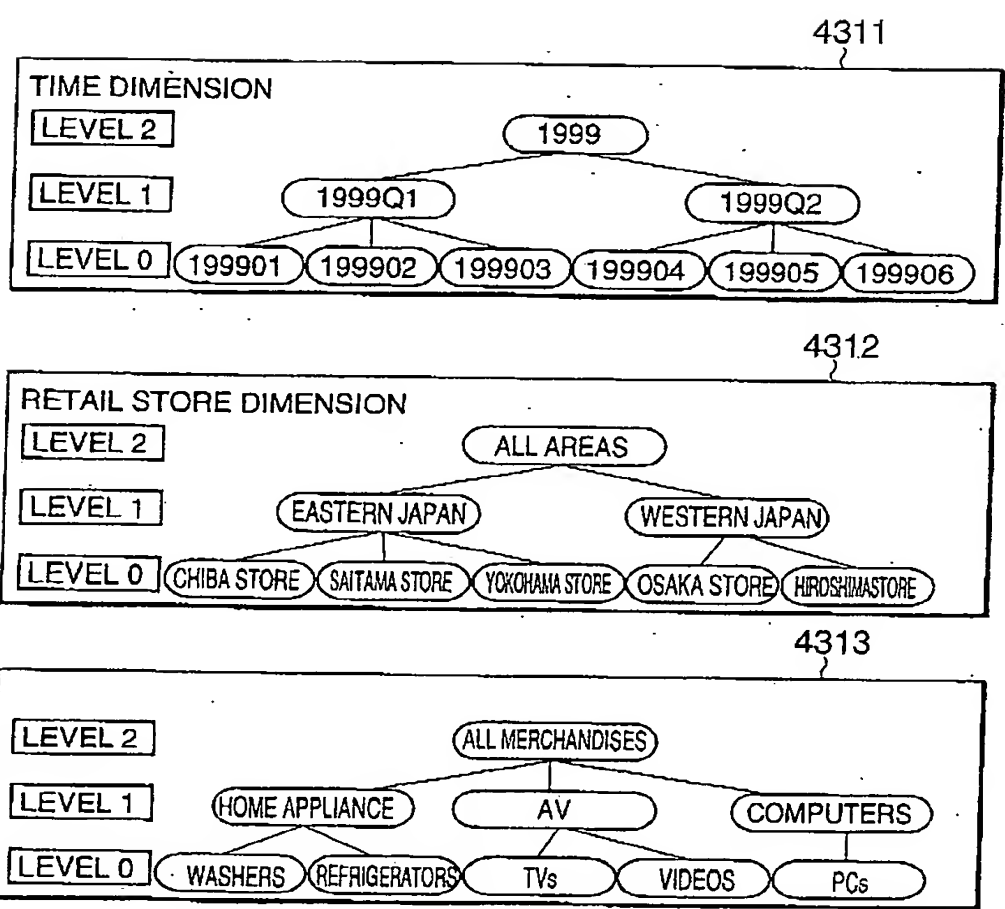


FIG.10





10015429-121301  
FOET2F-6245T00T

FIG.11

3120

RETAIL STORE DIMENSIONAL LAYER RULE DEFINITION DATA

#LAYER RULE :  
#OBTAINING LAYER INFORMATION FROM CSV FORMATTED FILE  
  
FROM FILE,CSV FILE  
LEVEL0=COLUMN 3  
LEVEL1=COLUMN 2  
LEVEL2=COLUMN 1

FIG.12

3126

ALL AREAS,EASTERN JAPAN,CHIBA STORE  
ALL AREAS,EASTERN JAPAN,SAITAMA STORE  
ALL AREAS,EASTERN JAPAN,YOKOHAMA STORE  
ALL AREAS,WESTERN JAPAN,OSAKA STORE  
ALL AREAS,WESTERN JAPAN,HIROSHIMA STORE

FIG.13

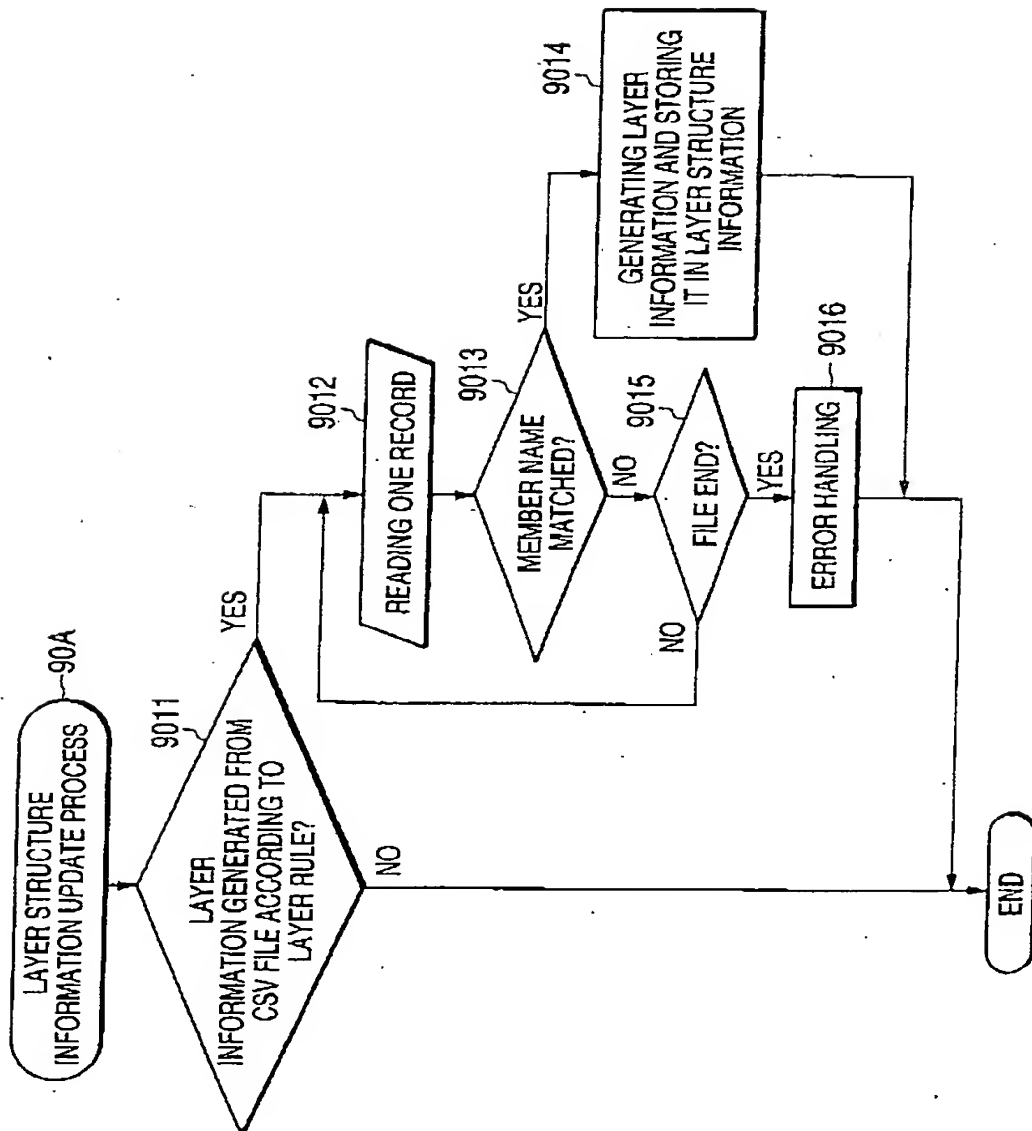
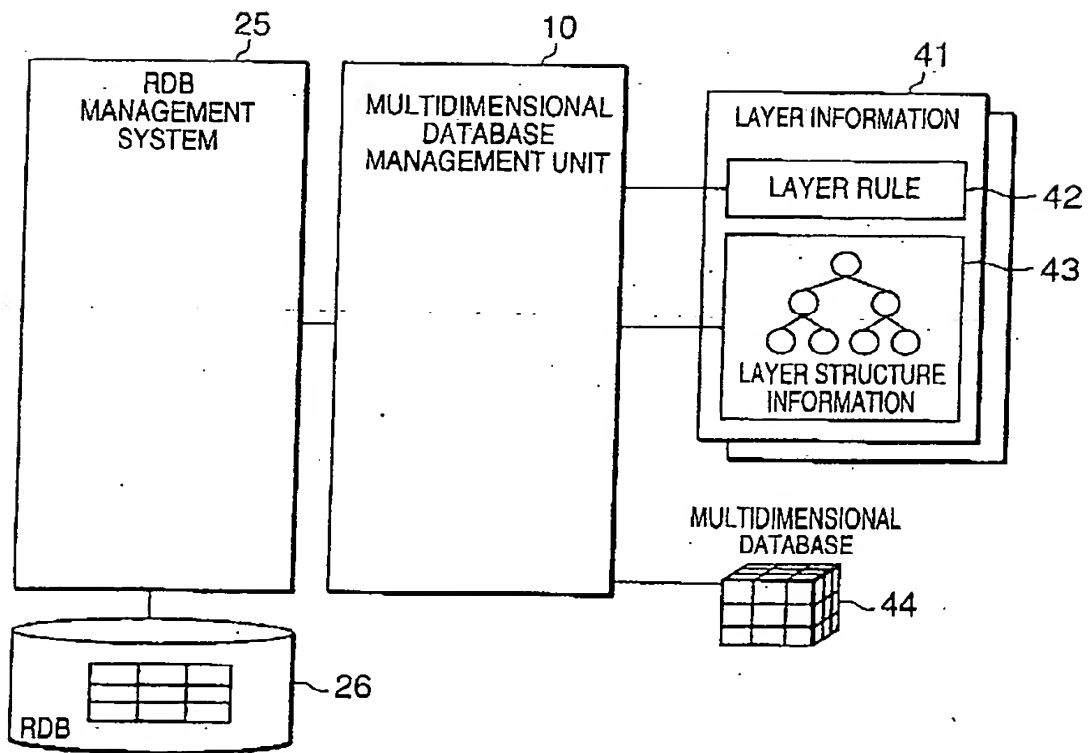


FIG.14



10015429-121301

FIG.15

MERCHANDISE DIMENSIONAL LAYER RULE DEFINITION DATA

3130

#LAYER RULE : RDB PRODUCT MASTER LIST  
#OBTAINING FROM COL1,COL2  
FROM RDB PRODUCT MASTER LIST  
LEVEL 0=SMALL CLASSIFICATION  
LEVEL 1=LARGE CLASSIFICATION  
LEVEL 2="ALL MERCHANDISE"

FIG.16

CONTENT OF RDB PRODUCT MASTER TABLE

LARGE CLASSIFICATION	SMALL CLASSIFICATION
HOME APPLIANCE HOME APPLIANCE AV AV COMPUTERS	WASHERS REFRIGERATORS TVs VIDEOS <u>PCs</u>

10015429-121301  
FIG. 17

FIG.17

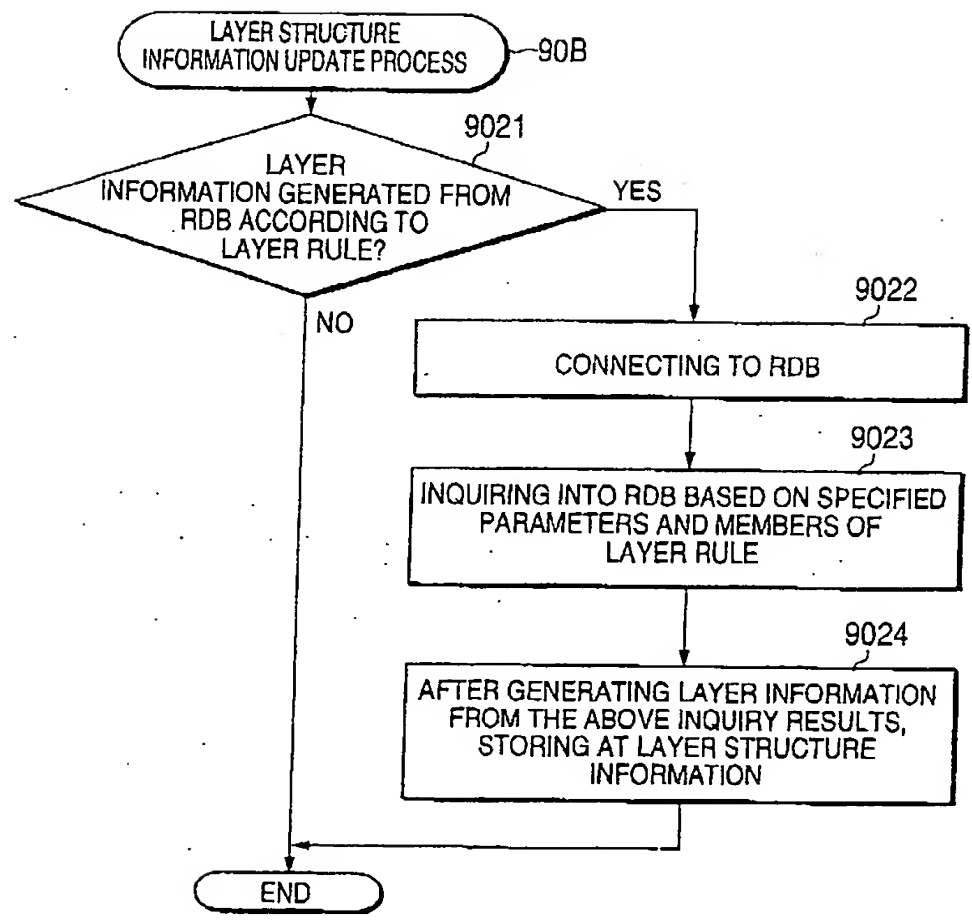


FIG.18

4310

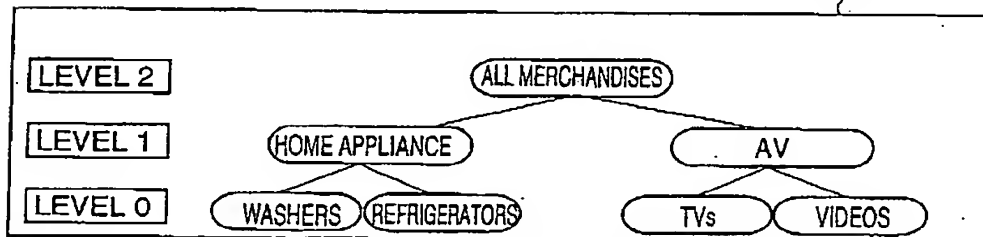
TIME DIMENSION  
(WITHOUT LAYER STRUCTURE INFORMATION)

4302

RETAIL STORE DIMENSION



4303



4304

UNIT DIMENSION(WITHOUT LAYER)

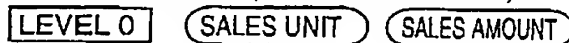


FIG.19

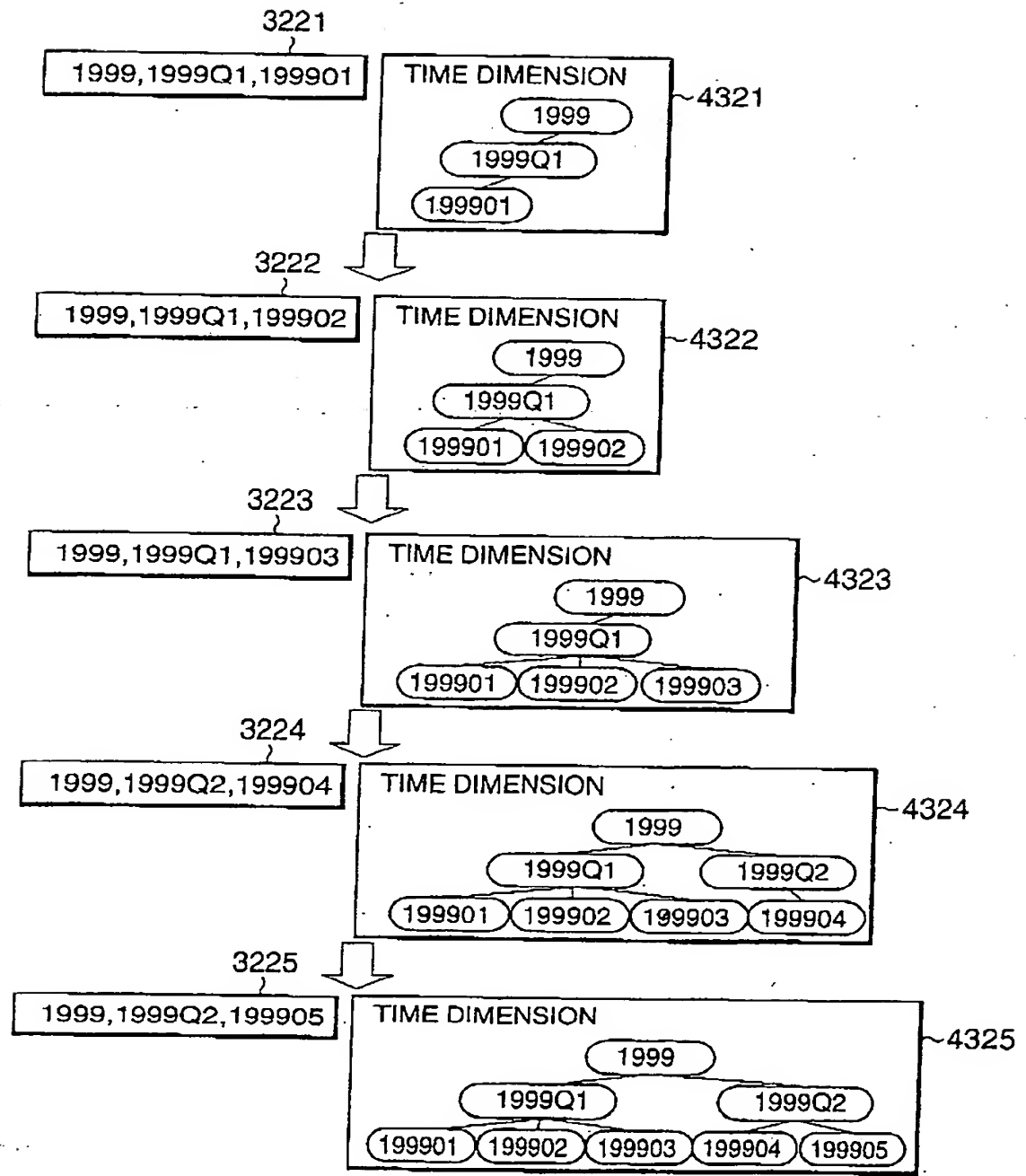


FIG.20 PRIOR ART

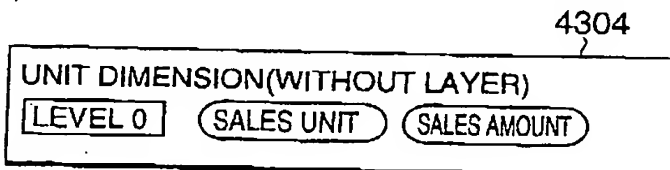
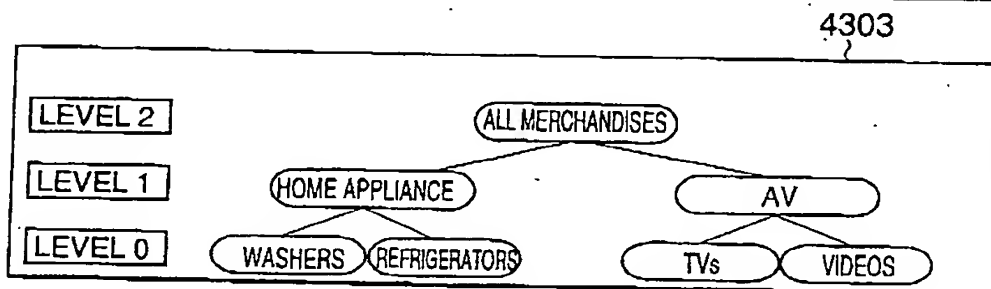
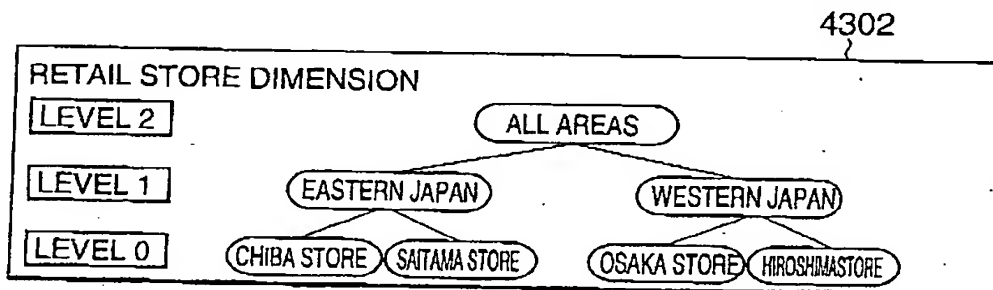
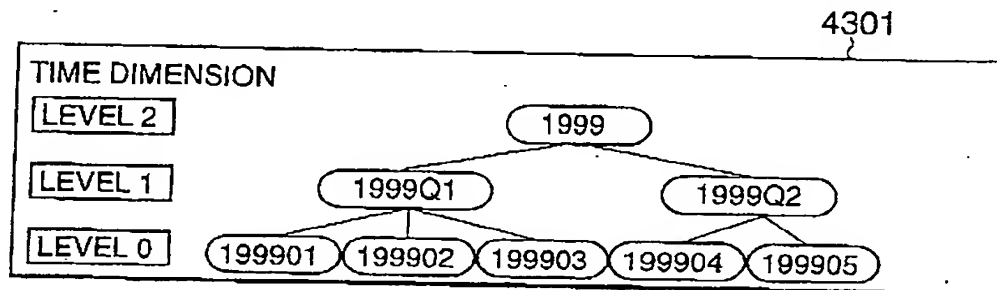
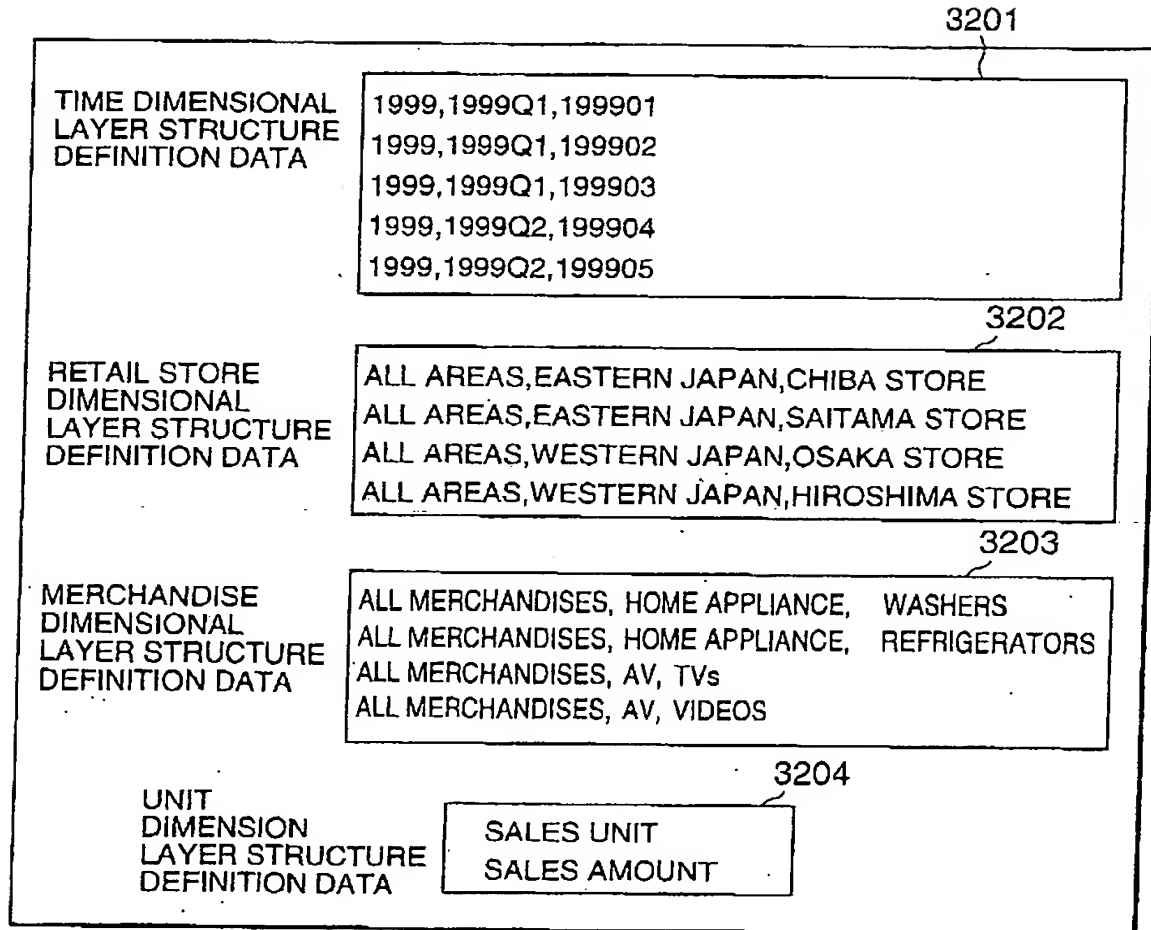




FIG.21 PRIOR ART



## FIG.22 PRIOR ART

3301

199901, SAITAMA STORE,	TVs,	22, 2420000
199901, OSAKA STORE,	REFRIGERATORS,	15, 1350000
199902, HIROSHIMA STORE,	VIDEOS,	42, 2940000
199902, SAITAMA STORE,	WASHERS,	21, 1680000
199903, CHIBA STORE,	VIDEOS,	33, 2310000
199904, HIROSHIMA STORE,	REFRIGERATORS,	18, 1620000
199905, CHIBA STORE,	TVs,	45, 4950000

...

FIG.23 PRIOR ART

MERCHANDISE DIMENSION		TVS				
UNIT DIMENSION		SALES AMOUNT				
TIME DIMENSION						
1999						
RETAIL STORE DIMENSION		19999Q1		19999Q2		
		199901	199902	199903	199904	199905
CHIBA STORE		1100000	330000	770000	1100000	660000
SAITAMA STORE		990000	990000	660000	660000	990000
EASTERN JAPAN		2090000	1320000	1430000	1760000	1650000
OSAKA STORE		1100000	1100000	1100000	1100000	990000
HIROSHIMA STORE		330000	550000	1100000	1100000	660000
WESTERN JAPAN		1430000	1650000	2200000	1210000	1650000
ALL AREAS		3520000	2970000	3630000	2970000	3300000
					10120000	5280000
					3300000	1980000
					4840000	2640000
					2200000	1100000
					1760000	1650000
					3410000	8250000
					1100000	4400000
					1760000	3740000
					2880000	8140000
					6270000	16390000

FIG.24 PRIOR ART

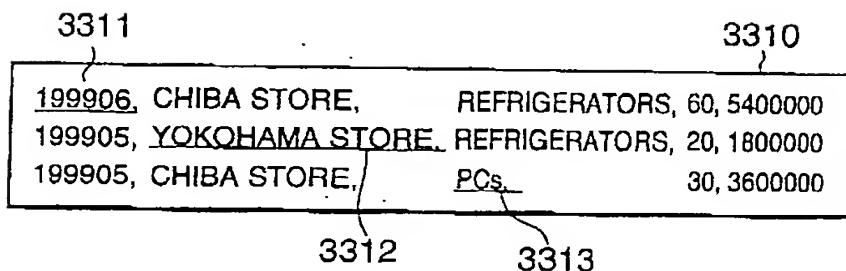
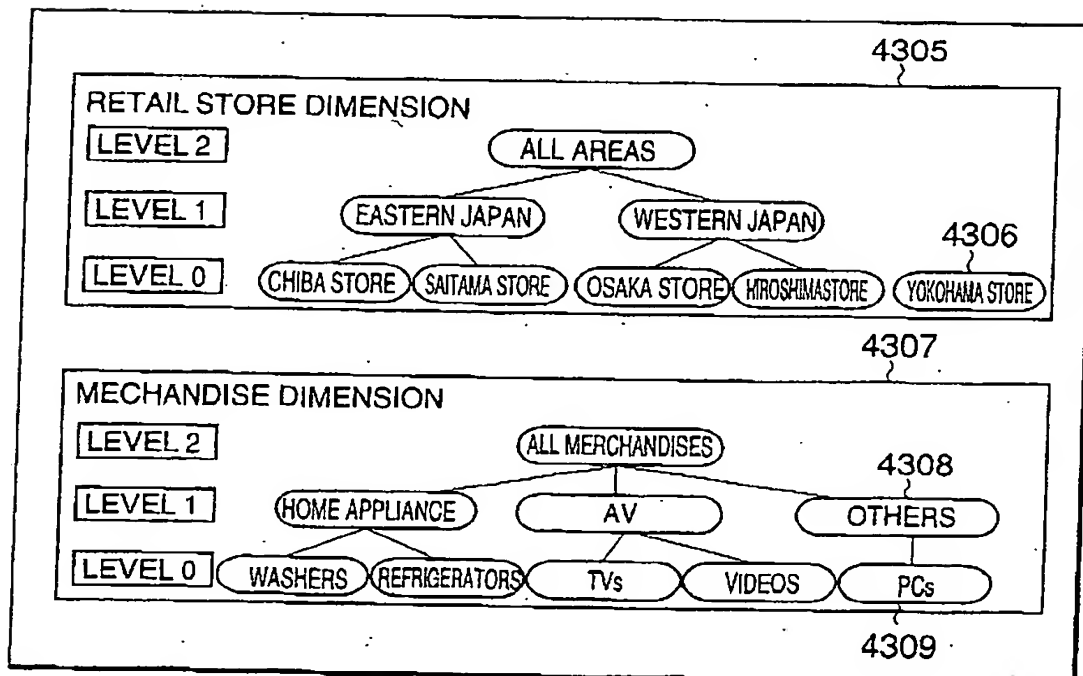


FIG.25 PRIOR ART



10015429 121301

FIG.26

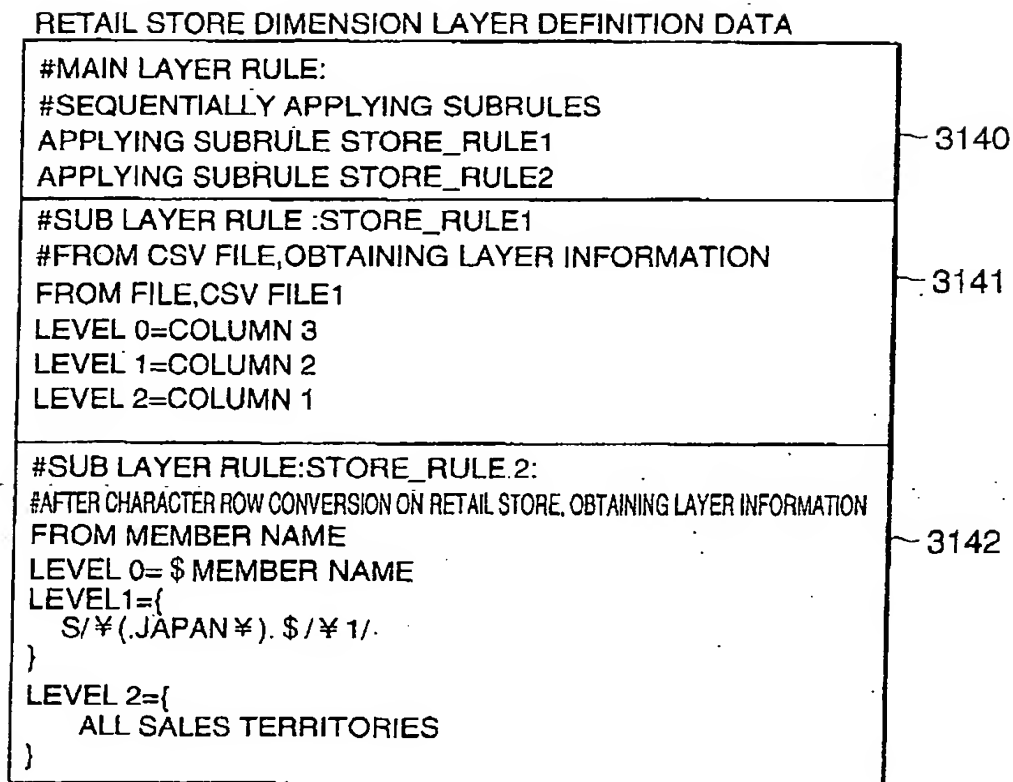


FIG.27

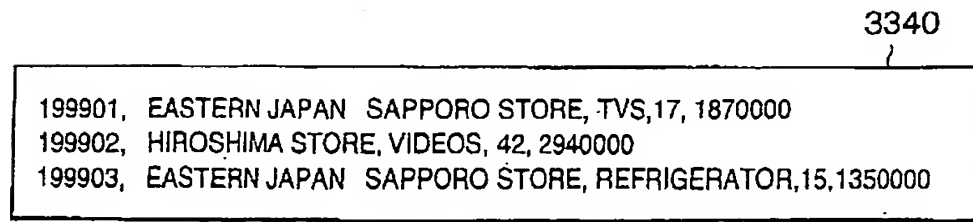


FIG.28

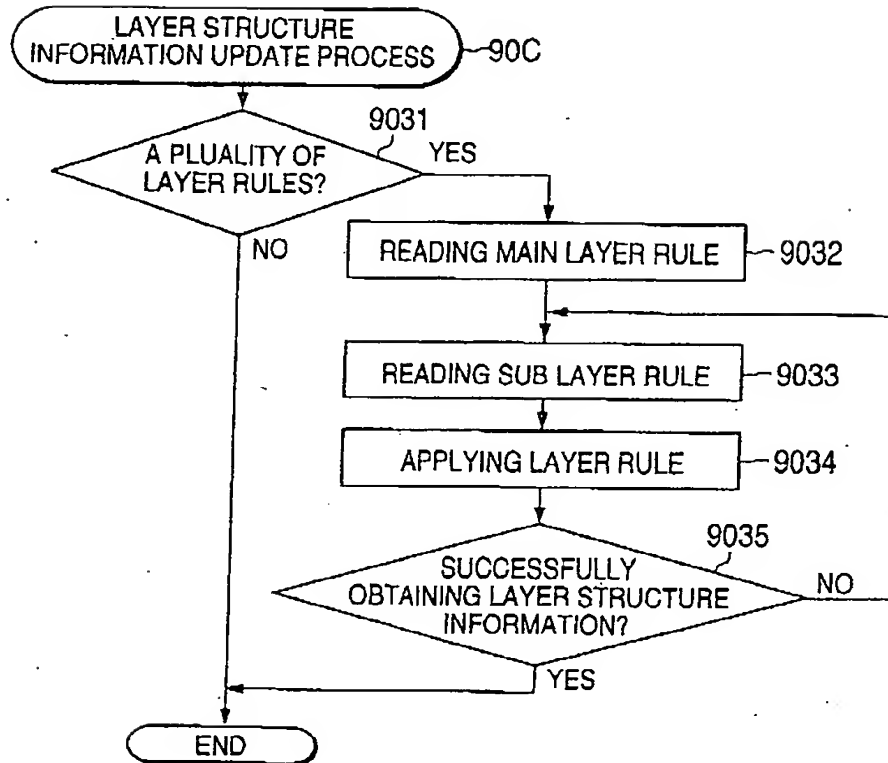


FIG.29

